

## Assignment- 4

Assignment Date

30 October 2022

Student Name

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Student Roll Number

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Maximum Marks

2 Marks

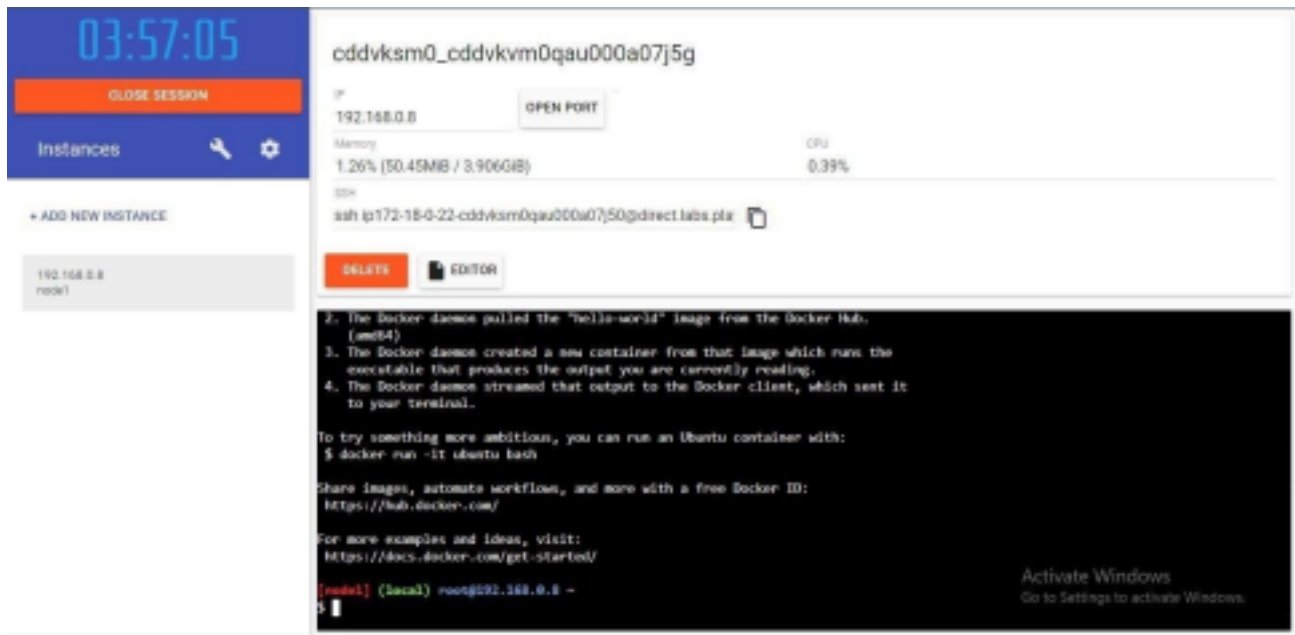
Question 1:

Pull an image from docker hub and run it in docker playground.

The screenshot displays the Docker Playground interface. On the left, there's a sidebar with a clock showing 03:57:32, a 'CLOSE SESSION' button, and an 'Instances' section with a search icon and a settings gear. Below this, there's a '+ ADD NEW INSTANCE' button and a list of instances, including one named '192.168.0.8' with a 'root' user. The main area shows details for a container named 'cddvksm0\_cddvkvm0qau000a07j5g'. It has an IP of '192.168.0.8', a memory usage of '1.24% (49.52MB / 3.99GB)', and a CPU usage of '0.31%'. There's an 'SSH' button and a terminal window. The terminal shows the following commands and output:

```
root@192.168.0.8:~# docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
4482797f9012fe: Pull complete
Digest: sha256:e3836277aef48607a671abec1ee405c14577c951a1a6f732a60011204e7
Status: Downloaded newer image for hello-world:latest
root@192.168.0.8:~# docker run hello-world
```

The terminal output shows that the 'hello-world' image was successfully pulled from Docker Hub and then run, resulting in a 'Hello from Docker!' message (though the message itself is not visible in the screenshot).



Question 2:

Create a docker file for the job portal application and deploy it in Docker

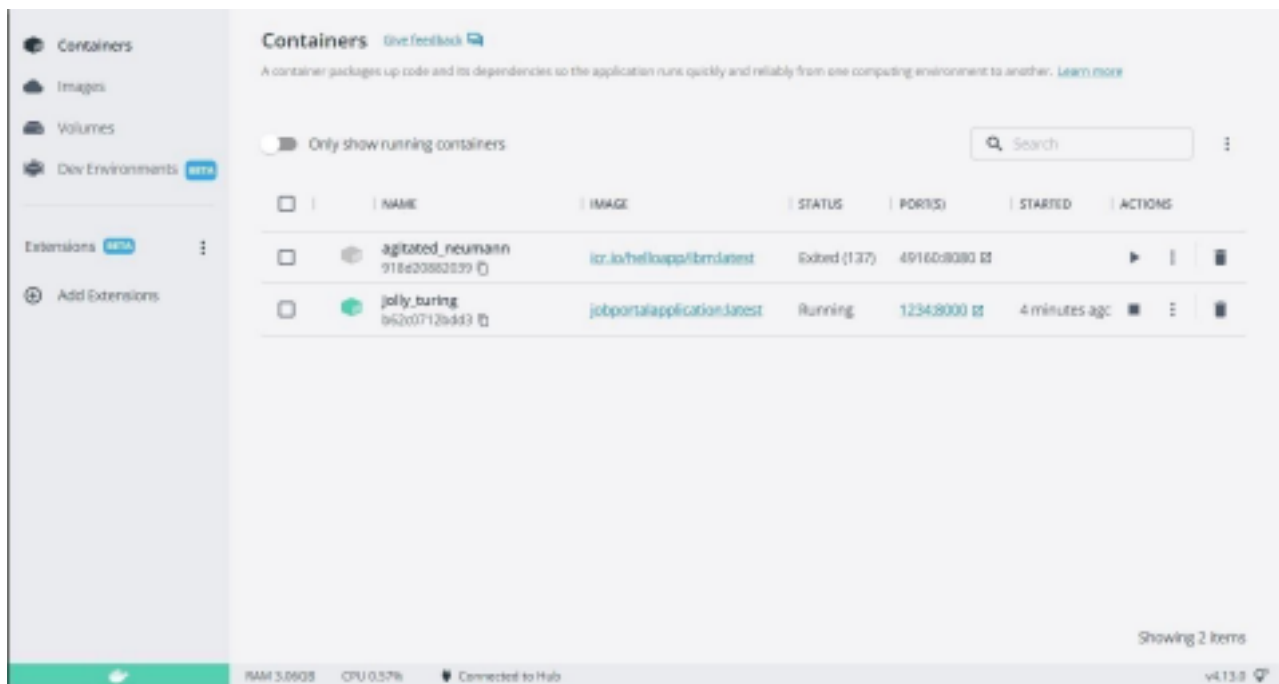
desktopapplication.DOCKER FILE:

```

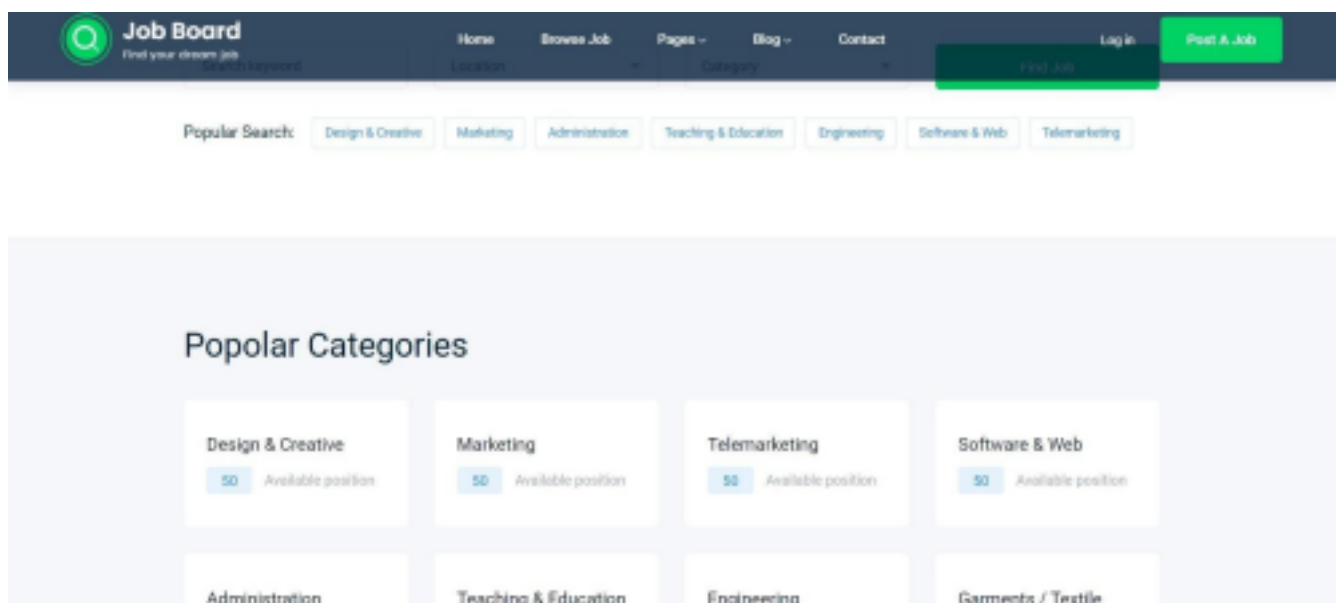
1 FROM python:3.8-buster
2
3 WORKDIR /app
4
5 COPY requirements.txt /app/
6
7 RUN pip install -r requirements.txt
8
9 COPY . /app/
10
11 RUN cp .env.dev.sample .env
12
13 EXPOSE 8000
14
15 RUN chmod +x entrypoint.sh
16
17 CMD ["sh", "entrypoint.sh"]

```

DEPLOYMENT OF JOBPOTAL APPLICATION:



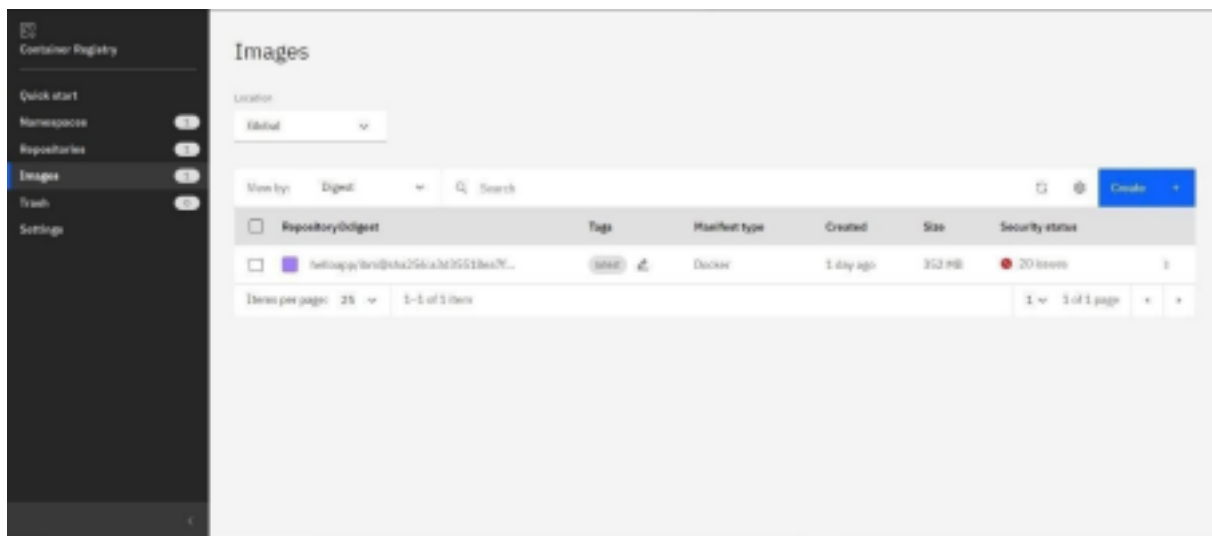
OUTPUT:



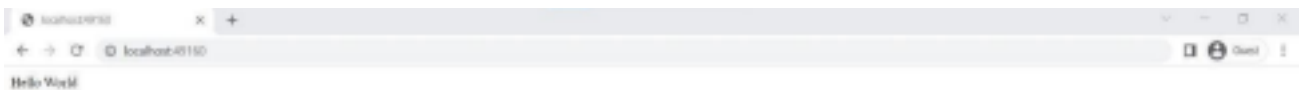
Question 3:

Create a IBM container registry and deploy hello-world app or job port app.IBM

CONTAINER REGISTRY DEPLOYMENT:



OUTPUT:



Question 4:

Create a Kubernetes cluster in IBM cloud and deploy hello world image or job portal image and also expose the same app to run in node port.

Creating Kubernetes cluster in IBM cloud and exposing node port:

